

THE Y-12 BULLETIN

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF CARBIDE AND CARBON CHEMICALS DIVISION

Union Carbide And Carbon Corporation

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OAK RIDGE, TENNESSEE

Wednesday, March 8, 1950



6-1186

Y-12 Photos By Vince Moore

PICTURED ABOVE IS THE PLANT COMMITTEE THAT IS CARRYING THE 1950 FUND campaign for the Oak Ridge Chapter of the American Red Cross to all corners of Y-12. Front row from left are Nelson Tibbatts, Bruce T. Whitaker, K. O. Johnsson, J. C. Little and W. S. Herron. In the back row are W. C. Davis, L. E. Parsons, Paschal Hamrick, H. O. Ramey, co-chairman of the committee with Y-12 Superintendent W. D. Lavers who was unable to be present for the picture; and James E. Keeton.

Electrical Maintenance Reports Perfect Attendance Record Again Friday Deadline To Enter Prints In March 14 Camera Club Contest

Dept 2007, Electrical Maintenance, surged back into the spotlight in the Y-12 attendance standings for the week ending February 26 by not only retaining the lead in the Major League of departments with more than 50 employees schedule but also reporting "all present" with no absences reported for the period. Plant absenteeism for the week ending February 26 dropped .1 per cent for the second consecutive week, bringing the figures back down to 3.1 per cent.

Remarkable Record Cited
The electricians of Dept. 2077 have established a remarkable record for the past 20 weeks. A check of records over that time reveal that the department was in first place 14 times and reported perfect attendance for 11 of those weeks. At one stretch the department reported all of its personnel present for five weeks in a row.

The Chemical Department retained second place in the Major League for the second straight week by reporting an absentee mark of only .5 per cent, cutting down from 1.6 per cent the preceding week. In third place was Field Maintenance with 1.3 per cent of its employees absent. Field Maintenance was in seventh place the previous week.

Two Departments Are Repeaters
Only three departments in the Minor League came through with perfect attendance records for the week ending February 26, as

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ACS To Hear Dr. Kennedy On Thursday



Dr. Joseph W. Kennedy

Dr. Joseph W. Kennedy, chairman of the Chemistry Department of Washington University, St. Louis, Mo., will be the principal speaker at a meeting of the East Tennessee Section of the American Chemical Society Thursday night, March 9, in Knoxville. The address will be given at 8 p.m. at Dabney Hall, University of Tennessee, and will be preceded by a dinner at 6:30 p.m. at the S and W Cafeteria.

Heaviest Elements Is Topic
The topic of Dr. Kennedy's talk will be "The Heaviest Elements." He will tell how during the past eight years the periodic table of the elements has been extended beyond uranium by discoveries of neptunium, plutonium, americium and curium. The development of the isotope chart in this region will be reviewed and a description given of methods producing the various trans-uranium isotopes.

(Continued on Page 2)

The deadline for entering photographic prints in the March 14 contest of the Carbide Camera Club will be Friday, March 10, according to Nat Stetson, of Y-12, president of the club. Y-12ers who are members of the club and plan to enter prints in the contest may leave them at the home of Stetson, 105 West Magnolia Lane. Oak Ridge National Laboratory members may leave their prints with S. A. Hluchan, vice president of the organization; and K-25 members may leave enries with Nelson Van Wie, secretary-treasurer.

More Entries Are Anticipated
Subject of the March contest will be sunrises and sunsets. In view of the revised rules of the black and white print competitions permitting smaller prints to be entered, a record list of entries is anticipated. There now is no minimum to size of pictures entered where previously the prints had to be at least eight by 10 inches in size. The size of mounting remains the same, 16 by 20 inches in vertical measurement.

The age of the negative from which the print is made shall not be more than two years and no picture previously entered in any Carbide Camera Club contest or winning a prize in other competition is eligible.

Meet In Y-12 East Portal

The March 14 contest will be held as part of the regular monthly meeting of the club to be held at 7:30 o'clock in the club headquarters, Y-12 East Portal Building.

Civilian Defense Reported Probed

According to The Christian Science Monitor, the United States is quietly making far-reaching plans on civilian defense against atomic and other attacks. The newspaper reports that the Congressional Joint Committee on Atomic Energy now is going into the entire picture in a series of closed hearings. The paper also cites scheduling of training courses on handling of radiation injuries by the Atomic Energy Commission.

'Satisfactory Progress' Is Seen In Y-12 Campaign For Red Cross; Company Allocates \$1,200 To Cause

"Very satisfactory progress" was reported by the Y-12 plant solicitation committee conducting the 1950 fund raising campaign in the plant for the Oak Ridge Chapter of the American Red Cross as employees generously responded to the appeal of the chapter for money to carry on the chapter's program for the coming year. The chapter is asking Oak Ridge to contribute \$19,272 to maintain the work of the various services provided.

100 Per Cent Participation Stickers All Over Plant

The square, red and white "we gave 100 per cent" stickers were going up all over the plant as group after group and department after department fell in line in Y-12. One department reported 100 per cent participation within one hour after solicitation opened last Wednesday while one entire division had a similar report by last Friday afternoon.

Because of the ground to be covered by the solicitors it is difficult to report just which department or division was actually first under the wire, but the general response throughout the plant was so thoroughly favorable that H. O. Ramey, Superintendent of the Employment Department and co-chairman of the solicitation committee, was hopeful that the campaign can be wound up this week. By so doing, the plant can equal its last year's record of reaching its assigned quota in seven days.

Company Allocates \$1,200

In addition to the quotas assigned to the various Carbide units in Oak Ridge, Carbide and Carbon Chemicals Division, Union Carbide and Carbon Corporation, has allocated the sum of \$1,200 to the Oak Ridge campaign.

Y-12 Superintendent W. D. Lavers is chairman of the plant solicitation committee. In addition to

Social Security Card Should Be Protected

"What good is my social security card after I have a steady job?" That question, says Social Security Manager Warren Maddox, is asked at his Knoxville office more often than you may think. "So," replies Maddox, "I'd like to stress a few points about that card."

Only Way To Identify Account

The Social Security card, according to Maddox, is the only means of identifying an individual social security account among the more than 92,000,000 other accounts. The number on that card is registered in the name of only one person and will never be used again at any time in the future.

"This is important," states Maddox, "because when employers report earnings, those earnings are credited to the employee under that account number. Since retirement payments and the death benefits coming to survivors after death are based on earnings, employees must be sure to have every dollar of earnings properly credited."

Number Needed For Service

Another point, according to Maddox, is the delay caused in filing any social security claim when a card is lost. When a person claims retirement payments, and when survivors put in claim for death benefits, the Social Security Office must have the account number to handle the claim. Also, in cases of lay-offs from employment, the Unemployment Compensation Office cannot process unemployment benefits without having the social security number.

"For these reasons," says Maddox, "we always urge that everyone hang on to their social security card; and if it is lost, get a duplicate right away from the Social Security Office at 509 West Church Ave., Knoxville, Tenn."

NEW PROTECTION DEvised

According to the Denver Post, Dr. L. R. Bennett, of the University of California at Los Angeles, has reported at an Atomic Energy Commission conference that tests with plants, rats and mice have disclosed protection against radiation resulting from cutting down the supply of oxygen.

SAFETY SCOREBOARD

Your Plant Has
Operated
259 DAYS
Without A Lost Time
Accident
THROUGH MAR. 5

'Nuclear Dipole Vibrations' Topic Of Seminar Discussion

"Nuclear Dipole Vibrations" will be the topic of the discussion at the weekly meeting of the Oak Ridge Physics Seminar set for 4 o'clock Friday afternoon, March 10, in the East Lounge of the Ridge Recreation Hall. All Y-12 scientific and technical personnel interested in the subject are invited to attend the session.

Prof. R. D. Present, of the University of Tennessee, will lead the discussion. Dr. C. E. Norman, of Y-12, led the meeting last week.



Co-Chairman Ramey, other members of the committee include W. C. Davis, Stores; Bruce Whitaker, Manufacturing Offices; Nelson Tibbatts, Maintenance; L. E. Parsons, Electromagnetic Research Laboratory; J. C. Little, Plant Engineering; W. S. Herron, Chemical; Paschal Hamrick, Industrial Relations; K. O. Johnsson, Chemical Research; and J. E. Keeton, Isotope Research and Production.

For the past two years, Y-12 has been first among the major contributors in Oak Ridge to report "over the top" in the Red Cross campaign and committee members are confident that the record can be maintained.

WORM SAVING DEVICE

The National Patent Council has reported the recent invention of a wiggling plastic worm for fishermen who hate to dig for their bait. The plastic fish-fooler wiggles realistically enough to look like real life to a fish—and like reel life to the fisherman.

Y-12 Bulletin

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'Heel At Wheel' Target Of Motor Manners Drive

What makes an automobile driver an Emily Post as a host and a heel at the wheel?

The answer to that question would go a long way toward solving the traffic accident problem which brings death to more than 30,000 Americans every year, the National Safety Council says.

Common courtesy is so important to safe driving that the month of March has been designated by the council for a nationwide campaign on motor manners.

The propaganda guns will be leveled at these six highbinders of the highway:

GANGWAY GUS—This is the fellow who gallantly holds the door open for the ladies or patiently waits his turn at a buffet luncheon. But at the wheel he's a "me first" guy who bluffs out the right-of-way at every intersection, weaves and jockeys through heavy traffic and forces pedestrians to jump for their lives when turning corners.

SID SCATBACK—"What's the rush?" is his motto at home when it's time to mow the lawn or dress for dinner. But the minute he climbs in his car, every second counts. He roars away from stoplights, fudges on stop signs, slides his passengers off the seat when he stops, and on the open road keeps the speed needle around the 70 mark.

RONNIE RULEBOOK—This character lectures his son on playing the game according to the rules. At the bridge table he's a junior grade Culbertson when he quotes chapter and verse to his partner. But to him the traffic regulations were written by dopes, and he breaks them every time he thinks he can get away with it.

TOM TOOTER—At home and in business, he believes that a "soft answer turneth away wrath." But at the wheel he has a horn for a brain and blasts his way through traffic by sheer volume of sound. Many a pedestrian is prematurely gray from meeting him.

BERT BULLHEAD—This fellow can be either a driver or a pedestrian. He just won't give in to the other guy. He carries a great big chip on his shoulder and dares anyone to knock it off. But in the drawing room his friends think he is an agreeable cuss.

GIL GALAHAD—In his home, this fellow insists that you take the most comfortable chair or have the last piece of steak. But don't try to take the last parking space from him, or he'll lock fenders with you at the drop of a hat.



The following Y-12 employees were patients in the Oak Ridge Hospital last week; Shirley Brown, Tool; Helen D. Hackworth, Analytical Laboratory; Nancy A. Garrison, Uranium Control and Computing; Kenneth B. Baker, Maintenance Shops; J. R. Duckworth, Isotope Research and Production; Robert Lee Jones, Buildings and Grounds; Daisy F. Whitehead, Medical.



Mr. and Mrs. G. H. Smith



SMITH-BOWERS

Of interest to many Y-12 employees was the marriage of Miss Virginia Bowers, of the Technical Service Laboratory, to Guy Hugh Smith, a former Y-12er now living at 4810 Ritchie Road, Baltimore, Md., on February 11. The ceremony was performed at 3:45 p.m. at the home of the Rev. R. H. Herring, uncle of the groom, Zebulon, N. C. The Rev. Mr. Herring officiated at the wedding.

The bride is the daughter of Mrs. H. N. Bowers, of Newport, Tenn., while the groom is the son of Mrs. Fannie Smith, Nevada Circle, Oak Ridge.

At her wedding the bride wore a pink suit and hat and grey accessories and a white orchid. Mrs. E. J. Perry, matron of honor and the bride's only attendant, wore a light tan suit with brown accessories.

William Bridges, cousin of the groom, was best man. During the ceremony E. J. Perry sang "Because."

Following the ceremony a reception was held at the home of Mrs. R. H. Herring, aunt of the groom. Mrs. Smith graduated from Central High School, Newport, Tenn., and her husband from North Carolina State College.

The couple will live in Baltimore.

Analytical Chemists Name Barton Leader

After helping to organize the group and presiding at opening meetings, Dr. C. J. Barton, of the Y-12 Chemical Research Department, was elected chairman of the Analytical Chemists of the East Tennessee Section of the American Chemical Society on February 27.

Dr. Griffiths Is Vice Chairman

Other officers elected for the year at the meeting were Dr. Fred Griffiths, of Maryville College, vice chairman; and Elvira Kavlauskis, of the Oak Ridge National Laboratory and former Y-12 employee, secretary-treasurer. Warren Grimes, of the Y-12 Chemical Research Department, was a member of a nominating committee submitting a slate to the membership.

C. D. Susano, of the Y-12 Technical Service Laboratory, was named chairman of a standing membership committee of the group. C. E. Thornton, of the Atomic Energy Commission, was appointed head of a standing committee to formulate programs for the organization. Meetings will be held one Monday each month.

By-Laws Are Adopted

The Analytical Chemists also adopted by-laws at the February 27 meeting, accepting a report turned in by a committee headed by H. P. House, also of the Y-12 Technical Service Laboratory.

Charles Horton, of K-25, gave a talk on "The Determination of Fluorides" at the meeting.

A deaf woman entered a church with an old-fashioned ear trumpet. Soon after she had seated herself, an usher tiptoed over to her and whispered: "One toot, and out you go."

Electricians Report 'All Present' Again

(Continued from Page 1)

against four the preceding reporting period. Of the three with no absences reported, two were repeaters from the week ending February 19. They were the Laundry and Steam Plant. Joining this pair was Cafeteria and Canteens, which was in third place the previous week.

Second place in the Minor League for the week ending February 26 went to Employee Relations, with 1.3 per cent of its personnel absent and which advanced from ninth place. In third place was Maintenance Utilities with an absentee mark of 1.4 per cent and which was in first place the week before.

The plant-wide absentee record for the week ending February 26, by departments, follows:

MAJOR LEAGUE			
Dept.	Percentage Absent	Standing	2-26-50 2-19-50
2077	0.0	1	1
2619	0.5	2	2
2015	1.3	3	7
2320	1.86	4	8
2360	1.91	5	10
2616	2.47	6	3
2014	2.49	7	12
2091	2.6	8	6
2003	2.8	9	11
2283	3.2	10	5
2142	4.3	11	9
2300	6.3	12	13
2282	6.5	13	4

Group absentee percentage was 2.6 per cent, .5 per cent lower than the preceding week.

MINOR LEAGUE			
Dept.	Percentage Absent	Standing	2-26-50 2-19-50
2096	0.0	1	1
2743	0.0	1	1
2107	0.0	1	3
2109	1.3	2	9
2005	1.4	3	1
2133	2.6	4	9
2739	2.8	5	2
2200	3.0	6	6
2001	3.5	7	1
2143	6.25	8	7
2060	6.25	8	7
2270	6.4	9	5
2009	6.7	10	9
2002	7.4	11	10
2008	7.6	12	8
2140	7.8	13	4
2090	14.7	14	11

Group absentee percentage was 4.3 per cent, .9 per cent higher than the preceding week.

The plant average for the week ending February 26 was 3.1 per cent, .1 per cent lower than the preceding week.

ACS To Hear Dr. Kennedy On Thursday

(Continued From Page 1)

Dr. Kennedy is a native of Nacogdoches, Tex., and graduated from Stephen F. Austin College in 1935. He received his M.A. degree at the University of Kansas in 1937 and his Ph.D. at the University of California in 1939. From March, 1943, to December, 1945, he was division leader of the Chemistry and Metallurgy Division at the Los Alamos, N. M., laboratory of the Manhattan District. Since January, 1946, he has been with Washington University.

Collaborated On Plutonium

He collaborated with G. T. Segre and A. C. Wahl in the discovery and early development of plutonium, including proof of fission in the element.

"Do you know," said the young student at the agricultural college to an old farmer, "your methods of cultivation are 100 years behind the time?"

Looking around he remarked, "Why, I'd be surprised if you made a dollar out of the oats in that field."

"So would I," smiled the farmer, "It's barley."



Births were reported to the following Y-12 families recently at the Oak Ridge Hospital; Mr. and Mrs. Dave Turner, girl, February 26; Mr. and Mrs. R. R. Tippy, boy, February 28; Mr. and Mrs. George K. Werner, boy, March 1.



The skies above Oak Ridge have been banned to inquisitive aircraft—but the wings of that high-flying old bird, Mr. Stork, kept the atmosphere stirring considerably recently by paying visits and delivering bundles of joy to present and ex-Y-12ers.

Y-12 firemen are congratulating Capt. Dave Turner and his wife, Ruth, a former employee here, on the birth of a baby girl, Carol Susan, born at the Oak Ridge Hospital February 26 and weighing in at eight pounds and four ounces. . . . Product Chemical folks are patting Hugh Nichols on the back for also becoming a member of the Proud Papas Of America Club February 18—the Nichols heir was a seven pound, 14-ounce son. . . . Down Manufacturing Offices way the handshakes were out for R. R. Tippy and Mrs. T. over the arrival of a seven pound, 14½-ounce boy February 28. . . . The Plant Records Office has sent its best wishes to Marie Cardwell, a former employee, on the birth of a daughter February 25 at the Oak Ridge Hospital, named Deborah Maureen. . . . Another member of the P.P. of A. club around these parts is George K. Werner, of Isotope Re-

ger, who is recuperating from an illness at his home following a stay in the Oak Ridge Hospital. . . . The same wishes are extended to Ed McGill, another sick list member. . . . V. L. Peppers is back from a vacation and reports he still has all of his fingers after doing a lot of work on his new home. . . . R. L. Greene has returned from a two-week vacation at an undisclosed location.

Verna Peckman, of the Cafeteria and Canteens Department, spent the past week end in Center, Ala.

The Stores Department is glad to have J. D. Hayes back at work after a recent illness but misses C. L. Pollard, who is on the ailing list.

Johnnie Fugate, of the Stores Department, spent the past week end at her home in Louisa, Ky.

Shirley Brown, of the Tool Department, is sent get well wishes. She is ill in the Oak Ridge Hospital.

Harold Babb, of the Maintenance Shops Department, and his folks had as recent guests his brother, James Babb, from Nashville—also Mrs. James Babb and son.

The Product Chemical Department extends deepest sympathy to Maude Whaley on the death of her daughter and Fred Hawk on the death of his mother. . . . Get well wishes are extended to Dell Walker and Jeanette Arnold.

Another ailing Y-12er to whom get well wishes are extended is Graham Rudolph, of the Plant Records Office. She is in the Baptist Hospital in Knoxville.

The Analytical Laboratory extends get well wishes to Elizabeth Patrick, another member of the ailing group. . . . Juanita Moore and her husband vacationed in Mobile, Ala., and while there took in the colorful Mardi Gras celebration. . . . (It is a less publicized celebration but is as full of action as the similar fete in New Orleans) . . . Anna Ruth Roberson is back from the sunshine of Daytona Beach, where she vacationed. . . . Another recipient of those get-well-of-the-aches-and-pains-quick wishes is Helen Hackworth. She was in the Oak Ridge Hospital last week.

The Research Engineering Department welcomes Arthur Brewer into the group. He is the husband of Elma Brewer, stationed in the office of Chief Miles Bradford, of the Guard Department.

Ruth Kidwell, of the Badge and Pass Office, left last Friday on a two-week vacation to be spent in Mohawk, Tenn.

Electrical Maintenance Department folks and other friends of C. B. Newman throughout Y-12 extend sympathy to him on the death of his wife's grandmother recently in Alabama.

Bill Peed, of Isotope Research and Production, is receiving expressions of sympathy over the recent death of his mother-in-law. . . . The department extends a speedy recovery wish to Ray Duckworth, who is ill in the Oak Ridge Hospital.

AICE Members Set Inspection Of Aluminum Company Plants

Some Y-12 members of the Knoxville-Oak Ridge Section of the American Institute of Chemical Engineers will accompany other members of the group on a plant inspection trip through the Aluminum Co. of America at Alcoa at 4 o'clock this afternoon, Wednesday, March 8. A choice of two tours was offered the visitors, one through the Reduction Plant and the other through the Sheet Rolling Mill.

Following the tours, the visitors were scheduled to meet at 6:30 o'clock for dinner at the S & W Cafeteria in Knoxville. At that time an address was to have been given by Dr. Francis Frary, director of research for the aluminum firm's research laboratories at New Kensington, Pa. His topic was announced as "Some Problems In The Aluminum Industry."



search and Production. The Werner youngster is a six and one-half pound daughter, born at the Oak Ridge Hospital on March 1 and named Helen Elizabeth. . . . Then there is Eugenia Wilcox, formerly of the Plant Protection Office, who with her husband, Bill, of K-25, became parents of a fine daughter, February 24 at the Oak Ridge Hospital. The little lady has been named Kitty Ellen.

Hope we didn't miss anyone in this Baby Derby roundup.

While on the stork-propelled bandwagon for new parents coverage and congratulations is extended to K-25 to Joe B. Riordan, editor of The Carbide Courier, and Mrs. Riordan, who welcomed a new son February 28.

The Assay Laboratory extended a warm welcome to Jim Redmond and Jim Parham, who returned to work last week after being ill for some time. . . . Get well wishes also are extended to Warren Beyer.

W. T. Hays has returned to his Security Office desk in the Plant Protection Office after a siege of sinus, but Betty Whitehorn, of the same office, became a victim of the flu bug last week.

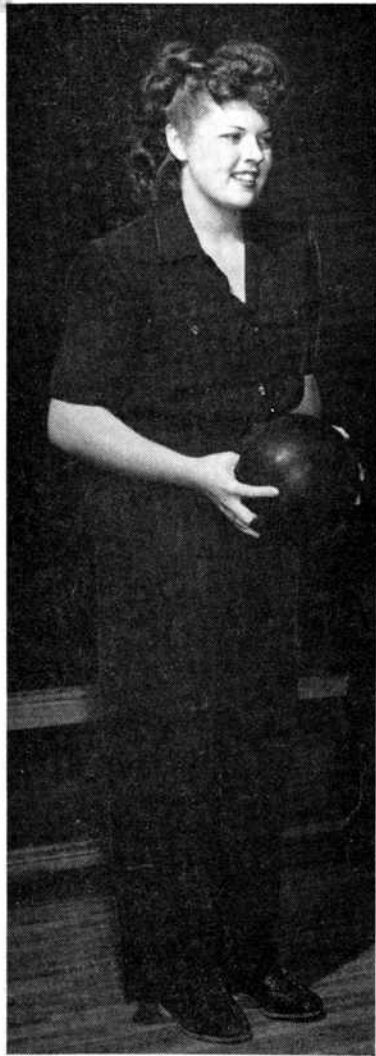
Clarence Johnson, of the Safety Office, and Mrs. Johnson are vacationing in Georgia and Mississippi.

The Uranium Control and Computing Department is extending get well wishes to Bertha Crowder, who is recovering from a tonsilectomy in a hospital at Hopkinsville, Ky. . . . Mrs. B. O. Crowder and her husband, W. F. Crowder, of the Chemical Department, spent the past week end visiting Dr. and Mrs. R. E. Mills in Lincoln, Ill.

Friends in Y-12 of Troy Hightower, former employee now living in Clinton, will regret to hear of the death of his wife, Mrs. Ruby Dunsmore Hightower, February 25, at Clinton. Funeral services were held last Tuesday, February 28.

Field Maintenance reaches out with get well wishes to H. J. Fin-

Ruth Law Posts 544 Pin Series; Y-12 Gets Sweep



Ruth Law

With Ruth Law burning up the Oak Terrace alleys with a 544 scratch series, the Y-12 varsity keglers swept three games from the Mims lassies last Thursday night and advanced one spot in the Oak Ridge City League standings. The Y-12ers were in ninth place after the alley activities last week, within reach of the Roane-Anderson team just three points ahead in eighth position.

Second High Of Season

Miss Law's fine score was tops for the third round of play in the league and second only for the entire season to a sizzling 556 rolled earlier by Fannie Hyde. The Y-12er started out with a sparkling 201 and then added games of 172 and 171. Her average for the season has been 130 and the average for the three games bowled last Thursday night was 181.

The rest of the Y-12 team gave good support to help the outfit make a clean sweep over their opponents. Daisy Ward combined games of 168, 127 and 147 for 442; Olyne Poindexter posted 94, 155, 160—409; Margaret O'Neal 139, 118, 133—390 and Oradean Upchurch 125, 110, 120—355.

The victorious Y-12ers jumped out in front with a 727 to 657 victory in the opening clash. The Mims women came close in the second game to hold Y-12 to a 689 to 679 triumph but the Y-12ers easily took the third contest by 721 to 659. The Y-12 total pinnage was 2,147 to 1,995 for Mims.

Atomic Workers Good For Insurance

In a recent meeting in New York, Dr. Karl Z. Morgan, director of the health physics division of the Oak Ridge National Laboratory, told representatives of 100 major insurance companies meeting at the Brookhaven National Laboratory that atomic energy workers can be insured on a standard rate basis the same as chemists, physicists and biologists who do not work in "hot" laboratories, it is reported by the New York Times. The Times said Dr. Morgan emphasized that work in atomic energy plants and laboratories does not entail additional industrial hazards because of the precautions set up in such plants and laboratories.

Y-12 DOUBLES TEAM WINS TOURNEY TITLE

Materializers Repel Challenge By Termites

The Materializers, holders of first place in the D League of plant pinmen for the entire third period of play, turned back a challenge by the Termites last week as they turned in a three-point victory. However, the loop leaders were still menaced by the Angstroms, who continued their upward surge by whitewashing the Overheads for four points.

Angstroms Have Chance For Tie

The Angstroms, currently the hottest team in Y-12, took over second place and earned the right to meet the Materializers in a position roll-off this week. The Angstroms are four points behind the Materializers and would have to win that many points to gain a tie for first place.

In thumping the Termites, the Materializers rolled a 1,032 handicap game for the high game of the third round of play as well as of the night and trimmed their foes by 140 pins. The victors also had the top scratch single game of 819 and tie with the Angstroms for the best handicap series score of 2,836. The Termites' scratch series of 2,345 also was tops for the night. Carl Frazier rolled a 600 handicap series for the Materializers, Dick Brothers 597, Frank Knox 575 and Fred Boody 549. John Ramsey posted a 206 single handicap game. For the Termites Frank Gragg posted a 498 scratch series and was closely followed by Sky Barker, Wes Savage, Ernie Cobble and Richard Dew. Spitzer, Twitchell Top Scorers

Ed Spitzer sizzled for the Angstroms by rolling a 209 single scratch game, built to 265 with handicap for tops of the night and the third round. He also had a 646 handicap series for the best of the night. Lewis Twitchell helped the victors along with a 503 scratch series for tops. Elmore Koons rolled a 466 scratch series and Leo Hemphill a 446 scratch for the losers.

Joe Patton, Paul Wilkinson, Frank Schaitlin and Tom Stephens bowled consistently to bring the Isotopes a whitewash victory over the Old Men and a tie for the cellar position with the Overheads. Keith Brown and Bill Davis rolled well for the Old Men and kept the match fairly tight.

In a ding-dong battle between the Strikers and Splinters each team got two points for an even split. Harold Ratjen paced the Splinters with a 491 scratch series while Bill Burns led the Strikers with a 486 scratch series.

League standing follows:

Team	W	L	Team	W	L
Materializers	23	5	Splinters	11	17
Angstroms	19	9	Old Men	11	17
Termites	18	10	Overheads	9	19
Strikers	12	16	Isotopes	9	19

Former Y-12er Is Supervising Improvement Of Cyclotron

W. Ray Armbruster, former Y-12er, now is maintenance engineer at Washington University, St. Louis, Mo., where he is busily engaged with his staff in completing major improvements on the university's cyclotron, according to word received by Oak Ridge friends.

While in Y-12, Armbruster was an electrical engineer and member of the Refining Division electrical staff and later a member of the Safety Department. After the war he went with the Eastman Kodak Co., Rochester, N. Y., before taking his present position at Washington University, his alma mater.

During their stay here, Mrs. Armbruster was a speech teacher for handicapped children in Oak Ridge schools.

AT LONG LAST

Colorado Springs, Colo., is reported in recent news dispatches as having gone modern. The municipal council there has abolished laws limiting the length of women's hat pins and prohibiting women's pictures in cigarette advertisements.



6-1158

Y-12 Photos By Vince Moore

TWO CONTENDING BOWLING TEAMS IN THE C LEAGUE are shown above, the Hornets and the Hooks. The Hornets, in the back row, are, from left, George Banic, Carl Frazier, Paul Wilkinson, John Sites and Ray Duckworth. The Hooks are Bill Mason, E. B. Galloway, Don Matlock, Toy Moody and V. H. Arms, in back of Matlock.

SPORTS NEWS

Three Y-12 Basketball Teams Entered In Knoxville Tourney

Y-12 will have three representatives in the Southern Appalachian independent basketball tournament scheduled to start at the Chilhowee Park arena tonight, Wednesday, March 8. In addition to the Y-12 women's varsity team in the Oak Ridge City League, both the Speckled Birds and Blue Jays of the Oak Ridge Recreation League have been entered in the Knoxville competition.

Maintenance Mauls All Stars To Rise

The Maintenance pinmen of the B League went on a rampage last Thursday night at the Oak Terrace alleys and when the dust of battle had cleared away and final scores posted it was discovered that the upkeep boys had whitewashed the All Stars for four points in one of the big upsets of the season. As a result of the outcome, the Maintenance maulers found themselves in undisputed possession of first place.

All Stars Fall Like Meteors

In reverse, the All Stars fell like a meteor in the loop standings and wound up in four-way tie down the line and behind the Tigers and Rippers tied for second; and the Cubs and Wolves, jointly occupying the next rung in the ladder.

The Rippers, joint holders of first place with the All Stars the previous week, escaped with an even break against the Head Pins. In other loop clashes the Tigers twisted the Comet's tail for three and the Cubs conked the Bums for the same number of points. The Wolves nipped One-91 for three points and the Mules kicked the Bumpers by a similar margin.

Holzknicht Top Scorer

Joy Holzknicht, of the Rippers, walked away with all individual scoring honors and posted two third round high tallies in so doing. He based it all on a 209 scratch single game and boosted it to 239 with handicap, both tops for the night. He had to share the latter honor with Frank Gordon, of the Mules. Holzknicht pounded out a 575 scratch series for third round tops and increased it to 665 with a handicap to lead the period scores.

Maintenance and Wolves shared team scoring honors. The Maintenance lads walked away with handicap honors, getting a 1,007 game and 2,879 series. The Wolves posted a 847 scratch single game and 2,461 scratch series, both tops for the night and also for the third round of play.

League standing follows:

Team	W	L	Team	W	L
Maintenance	9	3	Burns	6	6
Rippers	8	4	Bumpers	6	6
Tigers	8	4	Mules	6	6
Cubs	7	5	Comets	4	8
Wolves	7	5	Head Pins	3	9
All Stars	6	6	One-91	2	10

C. Roberts, Gragg Tops; K-25ers Hog Event

The doubles team of Conrad Roberts and Frank Gragg was the only Y-12 bowling combination to bring home a championship in the men's division of the Carbide bowling tournament that was concluded Sunday night at the Oak Terrace alleys. They topped the scratch scoring of 157 duets entered with a fine 1,089.

The Head Pins team of the B League finished fifth in team handicap scoring with 2,917. A total of 80 teams were entered in the competition.

In handicap scoring two Y-12 doubles teams tied at 1,236. They were the Harold Ratjen-Leo Caldwell and L. H. Barker-Bill Morgan duets. Their scores put them in a deadlock for fourth place.

Jay Holzknicht, of Y-12, finished seventh in handicap single scoring with a 648 series. A total of 260 bowlers were entered in the singles events.

K-25 Keglers Predominate

For the most part the men's division was dominated by keggers from K-25, these lads taking every first place with the exception of the scratch doubles.

In the women's division play, concluded the preceding week end, Y-12 women's teams finished one-two, the Cast Offs taking scratch and the Woes handicap honors. Olyne Poindexter and Margaret O'Neal took second place in scratch doubles and Olyne Poindexter was third in handicap all events scoring.

The Carbide all-Company tournament was the first such event of its kind held in Oak Ridge and created much interest among keggers of the three Carbide units in Oak Ridge. Trophies valued at \$500 are to be distributed among the winning teams and individuals in the tournament.

Top Teams, Scores Listed

In the men's division the C Shift Process outfit of K-25 took scoring honors in both scratch and handicap scoring, posting 2,485 and 2,962. As a result the Sterlings, also of K-25, who were second in handicap scoring with 2,962, will receive the handicap trophy. The handicap doubles title was taken by Shelton and Johnson, of K-25, posting 1,243.

Linville, of K-25 topped the singles scorers with 605 scratch and 698 handicap. Kocur, of Oak Ridge National Laboratory, was second in handicap scoring and will receive the trophy in that bracket. Peck, of K-25, had the best all events handicap score of 1,921 and Hutton, another K-25er, was tops in all events scratch with 1,625.

Women Bowlers Of Y-12 Roll In State Event

The Y-12 women's varsity bowling team that has been on a rampage recently in the Oak Ridge City League, spent the past week end in Nashville competing in the Tennessee state tournament held under auspices of the Women's International Bowling Congress. As the tournament extends over a period of several days, the Y-12 lassies could not be certain of how they ranked until all returns were in, but posted some excellent scores and have hopes of making a good showing.

After a day and a half of bowling the Y-12 team was third late Sunday afternoon with a 2,077 scratch and 2,680 handicap score. The team scoring was Olyne Poindexter 489, Margaret O'Neal 451, Katie Williams 413, Oradean Upchurch 364 and Ruth Law 360.

In doubles play Upchurch and Betty Sherman rolled a 1,125 handicap score, O'Neal and Poindexter had 1,136 and Williams and Law 1,051. In singles handicap Sherman had 592, Upchurch 568, Law 500, Poindexter 490 and O'Neal 583.

A nice place to figure the cost of accidents is in a hospital.

Varsity Keglers Of Y-12 Win Three Points From R-A Team

The men's varsity bowling team of Y-12 resumed winning ways February 27 when they romped over Roane-Anderson keggers for three big points, taking the first two out of three games and total pinnage. The victors won by 881 to 858,887 to 816 and then lost by 842 to 807. The Y-12 total score was 2,575 to 2,516 for Roane-Anderson.

Ernie Cobble led the Y-12ers in individual scoring, putting together games of 201, 185, and 188 for 574. Conrad Roberts posted a 204 for high man on the Y-12 team and his 171, 204 149—526 was second high. Other Y-12 scores were Elmore Koons 178, 184, 159—Frank Gragg 159, 190, 172—521; and Nelson Tibbatts 172, 187, 139—433.

Business will be better when shoe soles wear out faster than trouser seats.

**More Sport News
On Page Four**

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Proper Handling Of Classified Documents One Of keystones Of Y-12 Security Program

Proper handling of classified documents in Y-12 is one of the keystones of the security program of the plant aimed at preventing any such document or restricted information contained in it from reaching unauthorized persons.

The Y-12 Security Office has pointed out that the security regulations of the plant provide that all persons preparing documents, especially correspondence, shall be required to exercise sufficient care in the preparation so that each document may be given the proper classification. Also, attention and study should be devoted to the various means of avoiding as far as possible the higher classification by avoiding names of products, direct references and summaries of information, which in themselves require classification of the document in which they appear. It is declared that the additional time required to insure the lowest possible classification consistent with proper clarity will be justified by the resultant ease with which the document may be transmitted, handled and stored.

Y-12 security regulations provide that the originating authority shall determine the proper classification of a document at the time of its preparation. Classifications should confirm as nearly as possible to the definitions given in Paragraph 55.3 of Standard Practice Procedure No. 55A. When questions arise regarding proper classification, higher supervision should be consulted, after which any remaining questions may be referred to the Security Office, North Portal telephone 7125. The original classification of a document may be changed whenever a review of its contents indicates that such a change is necessary in order to bring the classification into conformance with existing requirements. The Standard Practice Procedure gives information on how such a change shall be made.



Second Division Teams Take C League Clashes

Lower bracket teams in the C League rose up in wrath and bowling proficiency last Wednesday night on the Central alleys to smite three of the four teams that had led the league before hostilities started. No changes in positions in the loop standings resulted from the alley activities, but the race was tightened considerably as a result of the uprisings.

Two Leading Teams Lose

The Hurricanes knocked over the loop leading Orphans for three points and the Moles buried the Guards, second place team, by the same count. Then the Short Circuits, last place outfit, stung the fourth-place Hornets for three points. The only first division team to report a victory was the Hooks, who bumped the Thin Pins for three.

The Hooks were in top form to walk off with all team scoring honors. Building from a 810 scratch single game they increased it to 1,007 handicap game then went on to post a 2,304 scratch series, boosted to 2,895 with handicap.

Jim Charles, of the Thin Pins, took handicap scoring honors for the night with 226 game and 621 series. Don Matlock's 182 was the best scratch single game on the book to the credit of the Hooks, as was George Riddle's 502 scratch series contribution for the Orphans.

League standing follows:

Teams	W L	Team	W L
Orphans	24 12	Thin Pins	16 20
Guards	23 13	Moles	15 21
Hooks	22 14	Hurricanes	14 22
Hornets	17 19	Short Circuits	13 23

TOUGHER PAPER SEEN

A tough paper made of synthetic fibers from such materials as cellulose, acetate or nitrate, plus a small amount of flax or manila hemp fiber as a binder, recently has been patented, according to the National Safety Council. The paper, it is predicted, will be especially useful for making tea bags and mimeograph stencils.

Ferrosilicon Alloy Greatly Increases Efficiency Of Big Transformers And Other Electrical Gadgets

Picture the plunging strength of 60,000,000 horses and you will have a fair idea of how much power there is in the wires carrying electricity to the homes, factories, and offices throughout the nation. The man-made lightning that streaks through the country's power transmission lines would indeed make your hair stand on end, for it's sometimes under a pressure of 100,000 volts or more. Before it enters our homes, it must be trimmed down to a mere 120 volts, to make it suitable and safe enough to run vacuum cleaners, radios and other electrical appliances.

Ferrosilicon Aids Efficiency

A relatively simple instrument tames high-voltage current quickly and easily. These marvelous machines, which do fancy tricks with electricity, are perched at the top of the neighborhood telegraph pole. What should be of particular interest to employees of all Union Carbide and Carbon units is that the Electro Metallurgical Co., a Union Carbide family member, makes one of the alloys—ferrosilicon—that has a lot to do with the efficiency of these machines that are called transformers.

Tremendous power savings are made possible by the use of silicon in the steels of which transformers and other types of electrical equipment are made. The special electrical and magnetic properties that silicon imparts to steel tend to reduce the loss of energy in electrical apparatus. Sometimes as much as five per cent silicon is needed to do the trick. Frequently, as little as 1/2 to two per cent is enough.

Electromet Stations Powerful

Visitors to Electromet power stations that create the energy needed to run its huge alloy furnaces, some of which consume enough power to supply a city of more than 60,000 homes, must certainly have felt the tremendous force behind the steady hum of the electric generators there. What may not have been realized at the time, however, was that silicon alloys are largely responsible for helping get the most out of these giant generators. Here, again, silicon is the priceless ingredient that helps bring about the proper conditions for their most efficient operation.

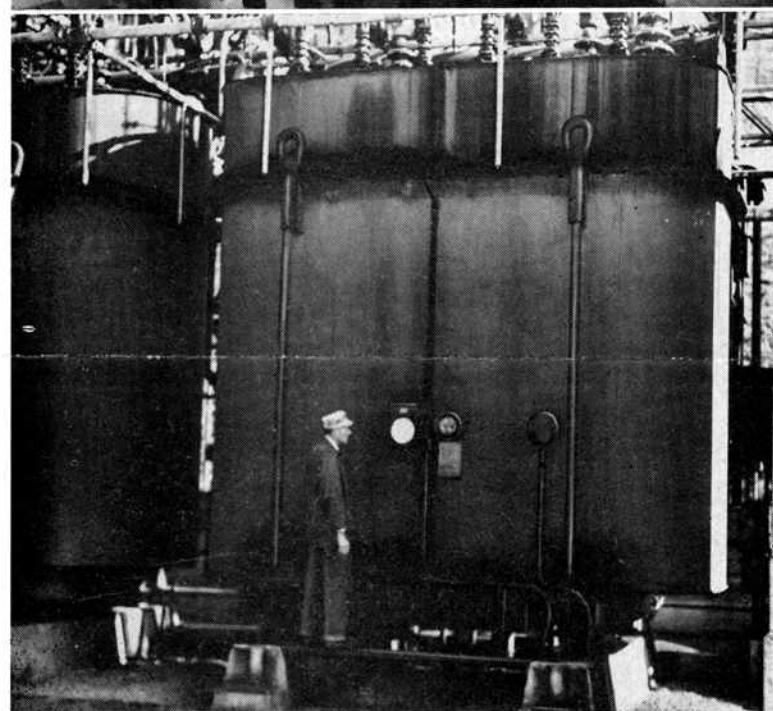
If we could see into the heart of vacuum cleaners, washing machines and countless other household servants run by electric motors, silicon steel is found in them, too. In fact, they would be of little use to us without it.

So next time you see a load of ferrosilicon go by, you can say to yourself—there goes the makings of an efficient power job.

Robins Divide Pair Of Games On Week End

In warmup games preceding the Southern Appalachian tournament in Knoxville this week, the Y-12 Robins divided a pair of basketball games last week end. On Friday night the Robins dropped a close and well-played game to the Knoxville Pepsi-Cola sextet, one of the finest teams in this neck of the woods, by the score of 45 to 40. On the following night the Red and White journeyed to Caryville to score an easy 42 to 20 score over the home town lassies.

The Y-12ers got away to a 11 to 9 lead over the Pepsi team but fell behind, 26 to 18, at the half. At the three-quarter pole Pepsi had a 34 to 30 lead that they held on to in the final frame. Donaldson, Y-12 forward, led the scoring for both teams with 17. Helen Brown got eight and Peggy Dickens seven. Against Caryville the Y-12ers led 18 to 2 at the first quarter, 30 to 12 at the half, 38 to 20 at the end of the third quarter and held their opponents scoreless in the last period while coasting in four points themselves. Peggy Dickens had 15 points for Y-12, followed by Helen Brown with 14 and Donaldson with nine.



THERE REALLY IS GREAT ACTIVITY IN THESE GIANT generators in the cathedral-like housing at Electro Metallurgical Co., shown in the top picture. Thanks to silicon steels, these generators do an efficient job of producing power. In the lower picture is one of the big transformers that "step up" electric voltage as it comes from the generating station so that it can be economically sent over transmission lines to Electromet's electric furnaces. The silicon steels of which these transformer are made have especial properties that help cut power losses.

Cinema Club Sets Meeting Thursday

All Y-12 members of the Oak Ridge Cinema Club have been urged to attend and bring guests to a meeting of the organization set for 8 o'clock Thursday night, March 9, at the Ridge Recreation Hall.

The guest speaker will be John Davenport, of the Signal Corps Photographic Center, New York City. He will speak on "What The Amateur Can Learn From The Professional Movie Maker." He is a screen writer for the center that produces all films for the armed forces and visited Oak Ridge previously when he presented a film, "Medical Effects of The Atomic Bomb."

Playhouse Opens Tryouts Tonight

The Oak Ridge Community Playhouse, fresh from its triumph in Two Blind Mice, will hold tryouts tonight, Wednesday, March 8, also on March 9 and 10, for the next production, Angel Street. Evan Means, of the Y-12 Electrical Maintenance Department, is technical director for the organization and

Cancer Research To Be Topic For Headlines In Chemistry

"Chemotherapy in Cancer Research" will be the topic of discussion in the Headlines In Chemistry program to be presented at 9:15 o'clock Sunday night, March 12, over Oak Ridge Station WATO under auspices of the East Tennessee Section of the American Chemical Society. The programs are a weekly presentation at the same hour every Sunday night under the auspices of the ACS.

Principals in the program for Sunday night will be John Vogel, of K-25, as host; John Barr, also of K-25, as reporter; and Dr. Carl T. Bahner, of the Chemistry Department of Carson-Newman College and K-25 consultant as guest.

Roberta McCutcheon, of the Y-12 Technical Service Laboratory, was featured on the program last Sunday night.

will be glad to give information on the tryouts to any interested Y-12er. Phyllis McDonald will direct Angel Street, which will be staged April 12, 14 and 15 at the Oak Ridge High School auditorium.

Woes Take Top W Loop Spot With Triumph

Fresh from their triumph in the Carbide bowling tournament, the Woes of the W League continued their "two-out-of-three" pace that they have held for the past nine weeks and romped into undisputed possession of first place in the circuit. Their victims last Wednesday night at the Jefferson alleys were the Dodgers.

In other league contests the Controllers socked the Spinners for three while the Kemps kicked the Rattlers for two and the Pick Ups downed the Hi Balls for the same number of points. The results dragged the Hi Balls down from a tie for first place with the Woes for first place to a deadlock for second with the Controllers.

Despite their advance to top of the league the Woes did not show among the team or individual scoring leaders. The Controllers banged out a 716 scratch single game, 2,104 scratch series and 2,772 handicap series for top team honors. The Hi Balls posted a 999 handicap single game for best in its class.

Ann Hamilton, of the Hi Balls; and Evelyn (Fiz) Tucker, divided individual scoring honors. Ann had a 185 scratch game, boosted to 241 with handicap. "Fiz" had a 469 scratch series, increased to 637 with handicap.

League standing follows:

Team	W L	Team	W L
Woes	18 9	Pick Ups	14 13
Hi Balls	17 10	Dodgers	12 15
Controllers	17 10	Rattlers	10 18
Kemps	16 11	Spinners	3 24